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July 1964

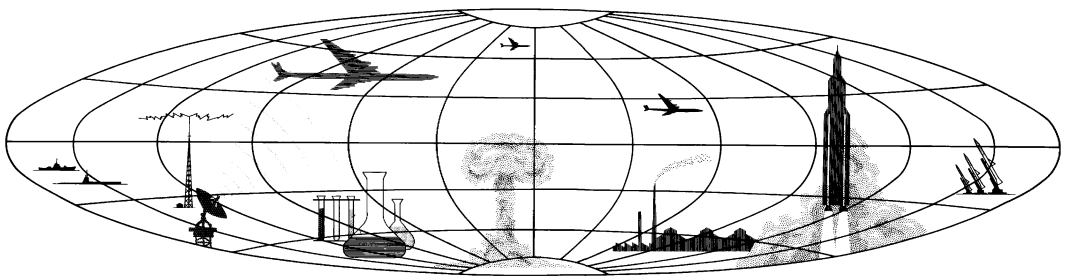
PHOTOGRAPHIC INTERPRETATION REPORT

# NEW SURFACE-TO-AIR MISSILE
# MOSCOW PARADE
# 1 MAY 1964

CIA DIA



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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# NEW SURFACE-TO-AIR MISSILE
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This report is in response to CIA requirement C-SI4-81,368 requesting mensuration and line drawings of the various components of the new track-mounted "twin" surface-to-air missiles observed in the 1964 Moscow May Day Parade. [redacted] photography of the parade revealed five transporter/launchers, each with two surface-to-air missiles (Figure 1). The numerical designations, 284572, 284565, 284571, 284566, 284570, 284564, 284567 and 284568 are visible on eight of the missiles. The designations of the two remaining missiles could not be determined. Dimensional drawings and additional photography of the missiles are shown in Figures 2 through 4.

[redacted]

Each missile appears to be single stage with four "strap-on" boosters and two sets of four fins. The overall length of the missile is [redacted] with a maximum diameter of [redacted] The maximum length of the transporter/launcher, including the two missiles, is [redacted] The four boosters are each [redacted] long, not including the nozzle assembly, and [redacted] in diameter. The booster nozzles are flared and angled away from the center line [redacted] Two small triangular-shaped fins [redacted] are located at the front of each booster, and two small rectangular fins [redacted] are located at the rear of each booster. The forward booster fins are angled away from the center line of the missile by approximately 25 degrees. Each of the four forward missile fins has a maximum length of [redacted] and tapers from a width of [redacted] to [redacted] A probe located on the leading edge of each of the four forward fins measures [redacted] in diameter. Each of the four rear missile fins is [redacted] at the widest point, tapering [redacted] The rear top-mounted fin has a small extension [redacted] long and [redacted] diameter which could possibly be used as an antenna. The three remaining rear fins have no appendages. Both the forward and rear fins are connected 90 degrees to the missile body by control-fin pivots; however, the forward fins are set at 45 degrees relative to the rear fins.

The transporter/launcher is a tracked vehicle [redacted] wide, apparently of a new design rather than a modification of an older tracked vehicle. It appears that the transporter/launcher gives the missile an elevation and traverse capability. When the transporter/launcher is in its travel mode, the top-mounted rear fin of each missile is removed and stored between the two missiles, giving a traveling height of [redacted]

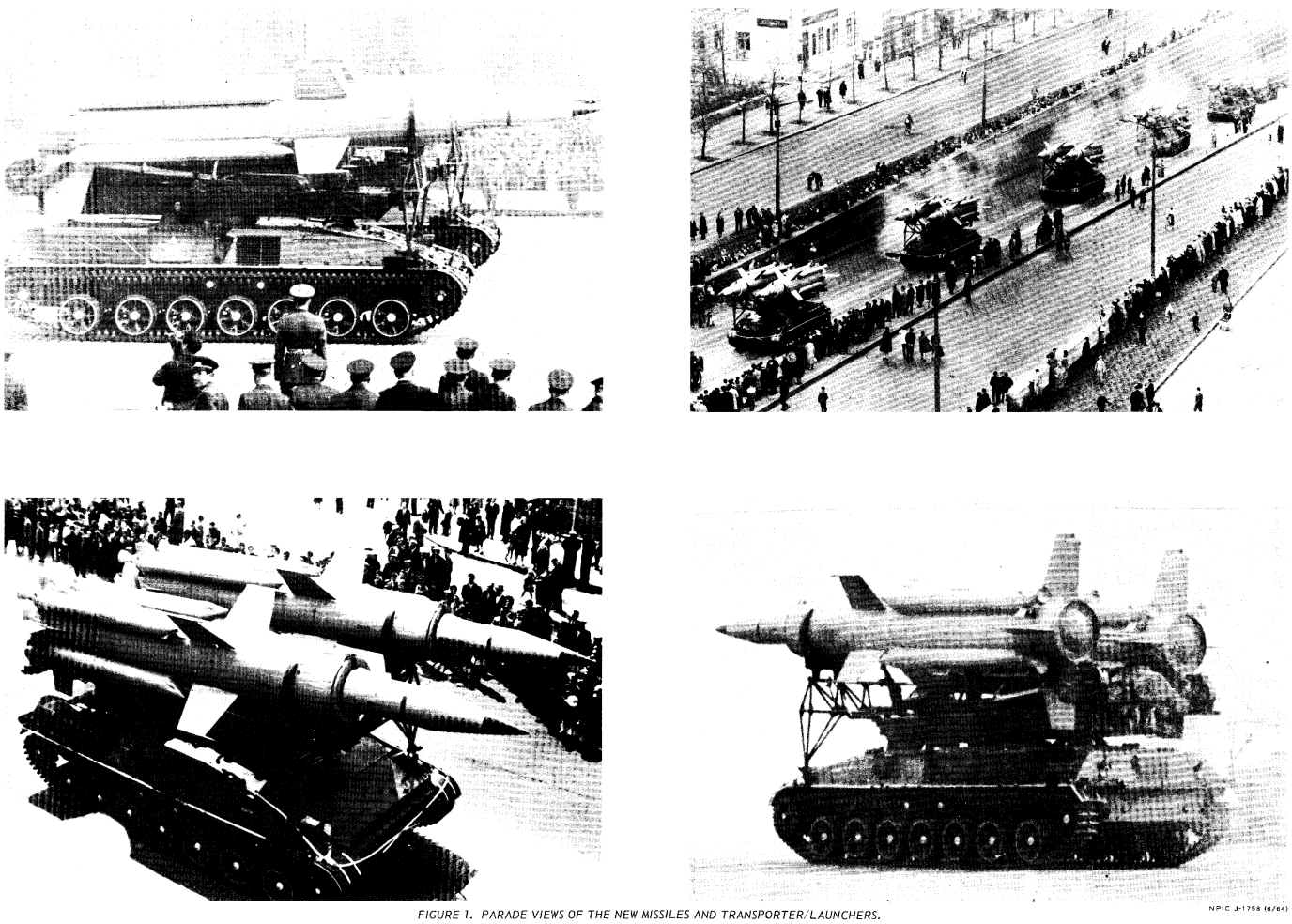

FIGURE 1. PARADE VIEWS OF THE NEW MISSILES AND TRANSPORTER/LAUNCHERS.

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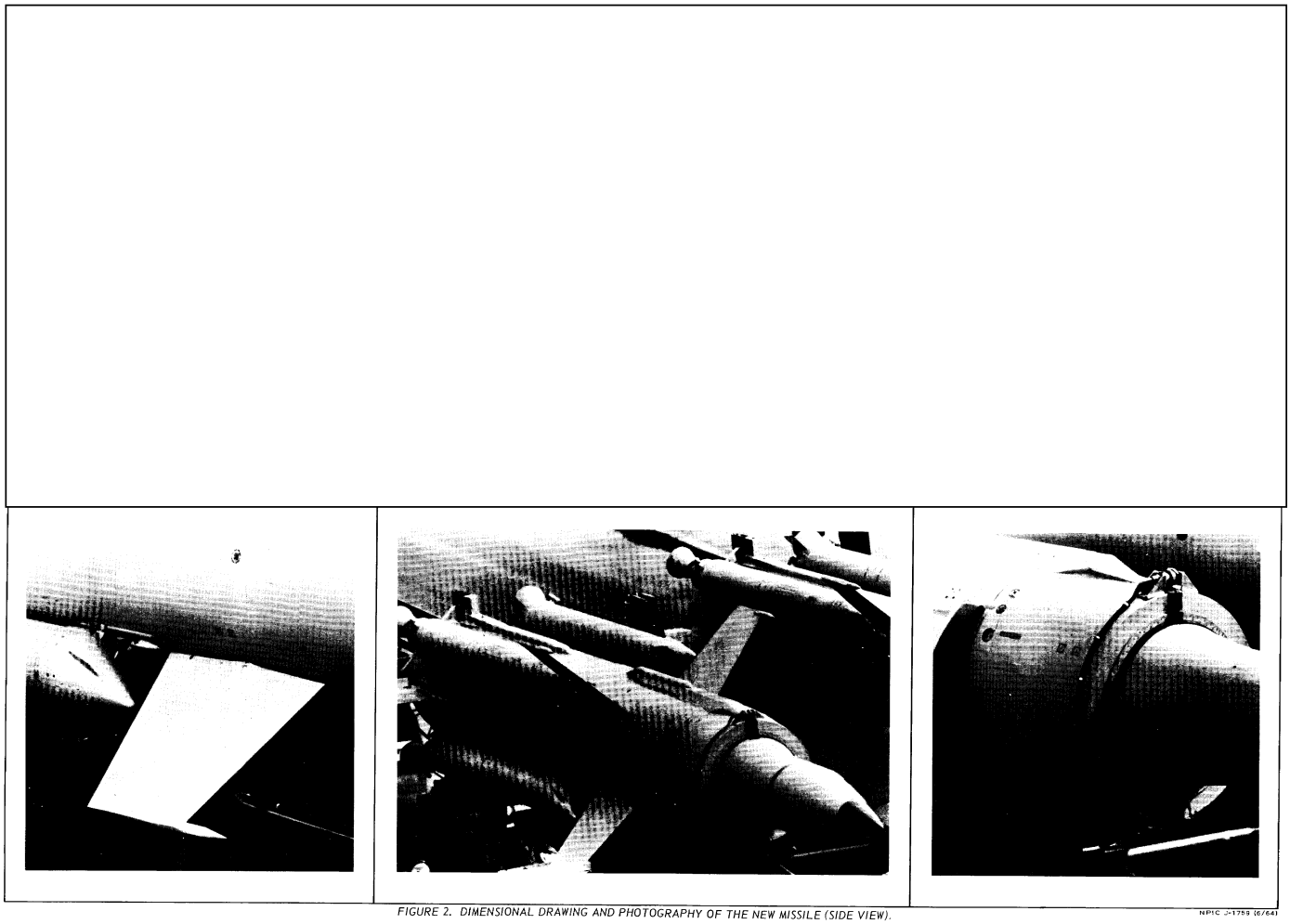

FIGURE 2. DIMENSIONAL DRAWING AND PHOTOGRAPHY OF THE NEW MISSILE (SIDE VIEW).

NPIC J-1759 (6/64)

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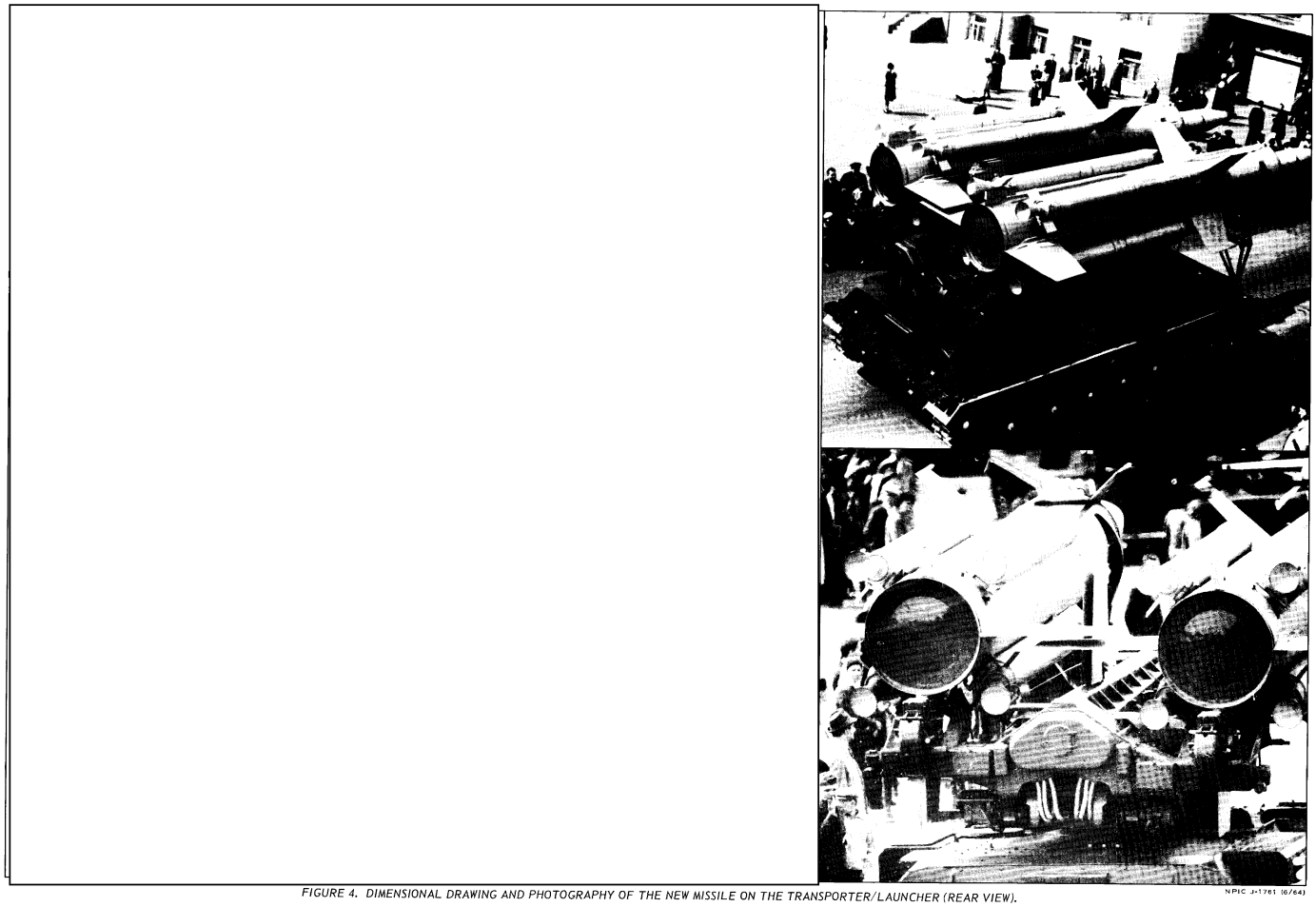

NPIC J-1761 (6/64)

*FIGURE 4. DIMENSIONAL DRAWING AND PHOTOGRAPHY OF THE NEW MISSILE ON THE TRANSPORTER/LAUNCHER (REAR VIEW).*

REFERENCES

25X1

| Accession No | Date | Classification |
|---|---|---|
| 3C67, 5C23, 5C29, 13A46, 24A22, 24A23, 6F28, 21B17, 28A7 | 1 May 64 | CONFIDENTIAL |

REQUIREMENT

CIA. C-SI4-81,368

NPIC PROJECT

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